

SHANINA, V.A.; KOLOBUTINA, O.M.; KOTEL'NIKOVA, G.P.

Roentgenelectrokymographic examination in cardiac aneurysms;
preliminary report. Kardiologiya 2 no.3:44-51 My-Je '62.

(MIRA 16:4)

1. Iz rentgenologicheskogo otdeleniya i otdeleniya funktsional'noy
diagnostiki (zav. V.F.Sysoyev) Gosudarstvennogo nauchno-
issledovatel'skogo instituta revmatizma (dir. - prof. A.I.Nesterov)
i kafedry propedevtiki vnutrennikh bolezney (zav. prof. A.M.Damir)
II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.
(ANEURYSMS) (HEART-EXAMINATION) (KYMOCGRAPHY)

ZODIYEV, V.V., prof.; SHANINA, V.A., kand. med. nauk

Characteristics of the X-ray pattern of lesions of the heart
in some collagen diseases. Vop. revm. 3 no.3:41-45 J1-S'63
(MIRA 17:3)

1. Iz rentgenovskogo otdeleniya (zav. - prof. V.V. Zodiyev)
Nauchno-issledovatel'skogo instituta revmatizma (direktor-
deystvitel'nyy chlen AMN SSSR prof. A.I. Nesterov) AMN SSSR.

KOTEL'NIKOVA, G.P.; SHAGINA, V.A.; MILAYEVA, L.V.

Importance of electrokymography in rheumocarditis. Vop. revm.
3 no.4:79-86 Q-D '63. (MIRA 17:2)

1. Iz otdeleniya funktsional'noy diagnostiki (zav. - kand. med.
nauk V.F. Sysoyev), otdeleniya rentgenologii (zav. - prof. V.V.
Zodiyeu) i revmatologicheskogo otdeleniya kliniki (zav. - Deystvitel'
nyy chlen AMN SSSR prof. A.I. Nesterov) Nauchno-issledovatel'skogo
instituta revmatizma AMN SSSR.

ZODIYEV, V.V.; SHANINA, V.A.

X-ray diagnosis of disorders of the heart in rheumatic fever. Terap. arkh. 35 no.2:82-85'63. (MIRA 16:10)

1. Iz rentgenologicheskogo otdeleniya (zav. - prof. V.V.Zodiyev)
Instituta revmatizma (dir. deystvitel'nyy chlen AMN SSSR prof.
A.I.Nesterov) AMN SSSR.

(RHEUMATIC HEART DISEASES) (HEART -- RADIOGRAPHY)

SHANINA, V.A.

Comparative significance of longitudinal tomography in the recognition of enlargement of the left atrium. Vest. rent. i rad. 38 no.5:3-7 S-0'63 (MIRA 16:12)

1. Iz rentgenovskogo otdeleniya (zav. - prof. V.V. Zodiyev) Nauchno-issledovatel'skogo instituta revmatizma (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I.Nesterov) Ministerstva zdravookhraneniya RSFSR.

KOSSOVA, A.M.; ZAMUKHOVSKAYA, A.N.; SHANINA, V.I.; ZHURBINA, V.I.; SURNINA, T.I.; SMIRNOVA, Ye.A.

Immunological characteristics of complex antigens to microbes of the enteric group obtained by means of the tryptic digestion method. Nauch. osn. proizv. bakt. prep. 10:33-42 '61. (MIRA 18:7)

1. Moskovskiy institut vaktsin i syvorotok im. Mechnikova.

USSR / Microbiology - General Microbiology.

F

Abs Jour: Ref Zhur-Biol., No 9, 1958, 38295.

Author : Shanina-Vagina, V. I., Zamukhovskaya, A. N.,
Kasyanova, L. K.

Inst : Not given.

Title : A Study of Nutrient Media in Depth Cultivation
of Typhoid and Flexner Dysentery Bacilli.

Orig Pub: Nauchn. tr. Mosk. n.-i. in-ta vaktsin i syvorotok,
1956, 8, 277-285.

Abstract: Nutrient media prepared from casein and fish-
bone meal hydrolysates by the action of the
Aspergillus terricola protease are similar in
composition to the commonly used tryptic casein
medium, and differ from the latter by the absence
of peptones and a larger polypeptide content.

Card 1/2

BUGROVA, V.I., kand. med. nauk; VINOGRADOVA, I.N., kand. biol. nauk;
 D'YAKOV, S.I., kand. med. nauk; ZHDANOV, V.M., prof.;
 ZEUKOV-VEREZHIKOV, N.N., prof.; ZEMTSOVA, O.M., kand.
 med. nauk; IMSHENETSKIY, A.A., prof.; KALINA, G.P., prof.;
 KAULEN, D.R., kand. med. nauk; KOVALEVA, A.I., doktor med.
 nauk; KRASIL'NIKOV, N.A., prof.; KUDLAY, D.G., doktor biol.
 nauk; LEBEDEVA, M.N., prof.; PERETS, L.G., prof. [deceased];
 PEKHOV, A.P., doktor biol. nauk; PLANEL'YES, Kh.Kh., prof.;
 POGLAZOVA, M.N., kand. biol. nauk; PROZOROV, A.A.; SINITSKIY,
 A.A., prof.; FEDOROV, M.V., prof. [deceased]; SHANINA-VAGINA,
V.I., kand. biol. nauk; VYGODCHIKOV, G.V., prof., zamestitel'
 otv. red.; ADO, A.D., prof., red.; BAROYAN, O.A., prof., red.;
 BILIBIN, A.F., prof., red.; BOLDYREV, T.Ye., prof., red.;
 VASHKOV, V.I., doktor med. nauk, red.; VIAZOV, O.Ye., doktor
 med. nauk, red.; GAUZE, G.F., prof., red.; GOSTEV, V.S., prof.,
 red.; GORIZONTOV, P.D., prof., red.; GRINBAUM, F.T., prof.,
 red. [deceased]; GROMASHEVSKIY, L.V., prof., red.; YELKIN, I.I.,
 prof., red.; ZASUKHIN, L.N., doktor biol. nauk, red.;
 ZDRODOVSKIY, P.F., prof., red.; KAPICHNIKOV, M.M., kand. med.
 nauk, red.; KLEMPARSKAYA, N.N., prof., red.; KOSYAKOV, P.N.,
 prof., red.; LOZOVSKAYA, Ye.S., kand. med. nauk, red.;
 MAYSKIY, I.N., prof., red.; MUROMTSEV, S.H., prof., red.
 [deceased]; (Continued on next card)

BUGROVA, V.I.---(continued) Card 2.

NIKITIN, M.Ya., red.; NIKOLAYEVA, T.A., red.; PAVLOVSKIY, Ye.N., akademik, red.; PASTUKHOV, A.P., kand. med. nauk, red.; PETRISHCHEVA, P.A., prof., red.; POKROVSKAYA, M.P., prof., red.; POPOV, I.S., kand. med. nauk, red.; ROGOZIN, I.I., prof. red.; RUDNEV, G.P., prof., red.; SERGIYEV, P.G., prof., red.; SKRYABIN, K.I., akad., red.; SOKOLOV, M.I., prof. red.; SOLOV'YEV, V.D., prof., red.; TRIBULEV, G.P., dotsent, red.; CHUMAKOV, M.P., prof., red.; SHATROV, I.I., prof., red.; TIMAKOV, V.D., prof., red.toma; TROITSKIY, V.L., prof., red.toma; PETROVA, N.K., tekhn.red.;

[Multivolume manual on the microbiology, clinical aspects, and epidemiology of infectious diseases] Mnogotomnoe rukovodstvo po mikrobiologii klinike i epidemiologii infektsionnykh boleznei. Otv. red. N.N.Zhukov-Verezhnikov. Moskva, Medgiz. Vol.1. [General microbiology] Obshchaya mikrobiologiya. Otv. red. N.N.Zhukov-Verezhnikov. 1962. 730 p. (MIRA 15:4)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Zhdanov, Zhukov-Verezhnikov, Vygodchikov, Bilibin, Vashkov, Gromashevskiy, Zdrodovskiy, Rudnev, Sergiyev, Chumakov, Timakov, Troitskiy).

(Continued on next card)

BUGROVA, V.I.---(continued) Card 3.

2. Chlen-korrespondent Akademii nauk SSSR (for Imshenetskiy, Krasil'nikov). 3. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Planel'yes, Baroyan, Boldyrev, Gorizontov, Petrishcheva, Rogozin). 4. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Muromtsev).

(MICROBIOLOGY)

KRAVCHENKO, N.A.; SHANINA-VAGINA, V.I.; BEREZKINA, G.N.

Nutrient medium for determining the toxigenicity of diphtheria microbes in experiments in vitro. Lab. delo 10 no.3:170-172 '64.

(MIRA 17:5)

1. Moskovskiy nauchno-issledovatel'skiy institut vaktsin i syvorc-tok im. I.I.Mechnikova.

SHAPIROVICH, A. M.

Elastic Rods and Wires

Solution of a problem of the torsion of linked thin-walled rods, Soob. AN Graz. SSR
11, No. 3, 1950.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

"Etnicheskiy sostav uzbekov i konsolidatsiya ikh v sotsialisticheskuyu."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences,
Moscow, 3-10 Aug 64.

SHARPLEY, D. (1900) THE LIFE OF THE LATE MR. D. SHARPLEY 1818-1898 7

"Obtaining Radioactive Isotopes of High Activity"

Isotopes and Radiation in Chemistry, Collection of Papers of the
All-Union Sci. Conf. on Use of Radioactive and Stable Isotopes and
Radiation in National Economy and Science, Moscow, Izd-vo AN SSSR, 1958, 380pp.

This volume publishes the reports of the Chemistry Section of the USSR Academy of Sciences on the use of radioactive and stable isotopes and radiation in research on the National Academy, sponsored by Acad. Sci. USSR and Main Science Directorate of Atomic Energy under Council of Ministers USSR, 1963-1964, April 1965.

5285:

Shankar, Hari. A note on entire and meromorphic functions. Publ. Math. Debrecen 5 (1958), 213-216.

Let $f(z)$ be an entire function with $|f(0)|=1$; let $\mathfrak{M}(r)$ be its minimum modulus; other notations as usual. The author improves results of S. K. Singh [J. Univ. Bombay (N.S.) 20 (1952), part 5, Sect. A, 1-7; Publ. Math. Debrecen 3 (1953), 1-8; MR 14, 33; 15, 786], as follows: If $0 < r < R$, then

$$\exp(T(R))/\mathfrak{M}(r) \geq (R/r)^{n(r)},$$

$$\mathfrak{M}(R)/\exp(T(r)) \geq (R/r)^{n(R)},$$

$$\exp(T(R))/\mathfrak{M}(r) \geq (R/r)^{N(R)/\log R}.$$

He also proves that for any nonconstant meromorphic function, $T(\alpha r) - T(r)$ increases if $0 < \alpha < 1$.

R. P. Boas, Jr. (Evanston, Ill.)

SHARIN, P. A.

"Problem of Antifiltration Devices in Earth Embankments," Gidrotekh. Stroi, No. 5, 1949.
Gand Mech Sci.

1. SHANKIN, P. A.
2. USSR (600)
4. Dams
7. Calculating the rock facing of earth dam embankments. Gidr. i mel. 4, no.11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

1. SHANKIN, P.A.
2. USSR (600)
4. Hydrodynamics
7. Determining the thickness of flow over the curved face of a spillway dam. Gidr.stroi.
No. 12 1952

9. Monthly List of Russian Accessions. Library of Congress, April 1953, Uncl.

SHANKIN, P.A., kandidat tekhnicheskikh nauk.

Calculations concerning stone reinforcements of earth dam slopes. Gidr. i
mel. 5 no.6:55-60 Je '53. (MLRA 6:7)
(Dams)

SHANKIN, P.A., kandidat tekhnicheskikh nauk.

Height of wave action against a slope. Rech.transp. 13 no.1:23-25 Ja-F '53.
(MLRA 6:11)
(Waves)

SHANKIN, P.A., kandidat tekhnicheskikh nauk.

Problem of calculating rock reinforcements for earth dam slopes. Gidr.stroi.
22 no.11:35-36 N-D '53. (MLRA 6:11)
(Dams)

SHANKIN, Petr Andreyevich; BEGICHEVA, M.N., tekhnicheskiy redaktor.

[Effect of waves on hydraulic structures] Vozdeistvie voln na
gidrotekhnicheskie sooruzhenia. Moskva, Izd-vo "Rechnoi trans-
port," 1955. 239 n. (MLRA 8:8)

(Hydraulic engineering) (Waves)

AUTHOR: Shankin, P.A., Candidate of Technical Sciences SOV-98-58-9-8/21

TITLE: The Limits of Reinforcements of Sloping Banks Subjected to Wave Action (O granitsakh kreplenykh otkosov podverzhennykh vozdeystviyu voln)

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1958, Nr 9, pp 27 - 30 (USSR)

ABSTRACT: Reinforced slopes of various dams of the Volga-Don canal were extensively damaged during a storm in November 1952. Examinations showed that the main cause of the damage was the wash-out of the unprotected parts of the slope below the lower part of the reinforcement. There was no damage to the unprotected upper parts of the slope. As a result of these examinations, the author devised formulae by which the dimensions of the lower and upper sections of the slope reinforcements can be calculated. There are 2 graphs, 1 table, 1 diagram and 6 Soviet references.

ASSOCIATION: (TsNIIEVT)

1. Inland waterways--USSR 2. Soils--Erosion 3. Soils
--Stabilization

Card 1/1

SOV/99-58-11-6/9

AUTHOR: Shankin, P.A., Candidate of Mechanical Sciences

TITLE: ~~Calculating~~ the Performance of Reverse Filters Under Conditions of "Wave Stream" (Raschët obratnogo fil'tra v usloviyakh volnovogo potoka)

PERIODICAL: Gidrotekhnika i melioratsiya, 1958, Nr 11, pp 38 - 46 (USSR)

ABSTRACT: The author reports on experiments with reverse filters, which were conducted on loose ground with special consideration for wave action upon the embankments. The author examined the composition as well as the thickness, durability, permeability and other properties of reverse filters under different types of linings and water conditions, and he developed various formulas. The formula for determining the necessary thickness of reverse filters is as follows:

$$t_n \geq d_n \cdot 4,75 \ln \left(\frac{p}{12} \cdot \frac{d_n}{d_n+1} \right)$$

Card 1/2

Calculating the Performance of Reverse Filters Under Conditions of "Wave Stream" SOV/99-58-11-6/9

where: d_n = the average size of filter particles in the n layer: the value of φ coefficient has to be taken from the graph 2. The applicability of the proposed formulas was checked by a series of laboratory tests under different conditions. The proposed method of calculating reverse filters has not yet been tested under actual conditions. However, the correctness of this method was proved by tests conducted in 1957 along the lined banks of the Canal imeni Moskva. No damages to the banks were observed in places where reverse filters had been installed. There are 2 diagrams, 1 table, 1 graph and 4 Soviet references.

Card 2/2

SHANKIN, P.A., kand.tekhn.nauk

Experimental study of concrete-covered slopes of earth structures
subjected to the action of wind waves. Trudy TSNIIEVT no.15:
65-96 '58. (MIRA 11:12)
(Waves) (Hydraulic engineering)

SHANKIN, P.A., kand. tekhn. nauk

Studying waves caused by ships in canals. Rech.transp. 17
no.9:46-49 S '58. (MIRA 11:11)
(Waves) (Canals)

SHANKIN, P. A.: Doc Tech Sci (diss) -- "Investigation of concrete coverings for the slopes of earth hydraulic-engineering structures subjected to wave action". Moscow, 1959. 14 pp (Min Agric USSR, Moscow Inst of Water Economy Engineers im V. R. Vil'yams), 150 copies (KL, No 17, 1959, 108)

SHAMKIN, P.A., kand.tekhn.nauk

Action of ice on the concrete facing of a slope. Gidr.
stroj. 30 no.9:36-39 S '60. (MIRA 13:9)
(Hydraulic structures) (Ice on rivers, lakes, etc.)

SHANKIN, P.A., kand.tekhn.nauk

Calculating the strength of slope paving concrete against the
action of land ice. Gidr.stroi. 31 no.3:32-34 Mr '61.
(MIRA 14:4)

(Ice on rivers, lakes, etc.)
(Concrete)

SHANKIN, Petr Andreyevich; MIKHAYLOV, A.V., doktor tekhn. nauk, retsenzent;
GUREVICH, V.B., kand. tekhn. nauk, red.; MAKRUSHINA, A.N., red. izd-
va; BODROVA, V.A., tekhn. red.

[Design of the slope pavings of hydraulic structures] Raschet pokry-
tii otkosov gidrotekhnicheskikh sooruzhenii. Moskva, Izd-vo "Rechnoi
transport," 1961. 292 p. (MIRA 14:10)

(Hydraulic structures)

MAKKAVEYEV, N.I., prof.; LAPTEV, M.I.; MITYAKOVA, M.N.; KONDRAKHOVA, Ye.I.;
SHANKIN, P.A.; RZHANITSYN, N.A.; RABKOVA, Ye.K.; VYKHLOV, K.P.;
CHALOV, R.S.

[Planning the navigable channels of unregulated rivers.]
Proektirovanie sudovykh khodov na svobodnykh rekakh. Moskva,
Transport, 1964. 261 p. (Moscow. Tsentral'nyi
nauchno-issledovatel'skii institut ekonomiki i ekspluatatsii
vodnogo transporta. Trudy, no. 36). (MIRA 18:12)

SHANKIN, V.F., inzh.

Purifying sewage in tanneries. Leg.prom. 18 no.10:44-45
0 '58. (MIRA 11:11)

(Sewage--Purification)

ORIGINATOR : Turkmen Plants. Commercial. (1957). 0086
Biology

ORIG. SOURCE : Turkmen-Biologiya, No. 5, 1957, pp. 241-252

AUTHOR : Shenkina, N.G.

INST. : Turkmen Univ.

TITLE : Relation of Cotton in Its Early Developmental
Stages to the Factor of Temperature.

ORIG. PUB. : Uzb zap. Turkm. un-t, 1957, vyp. 11, 241-252

ABSTRACT : Study was made of the germination of cotton
seeds belonging to 13 different varieties of
three species: *Gossypium hirsutum* L., *G. bar-*
badense and *G. herbaceum*. The most exacting
in regard to heat were the seeds of *G. hirsu-*
tum, then *G. barbadense* (Soviet fine fibered
cotton), and the least exacting were the
varieties of *G. herbaceum*. Among the varieties
most widespread throughout Turkmen SSR, the
1031 variety was the most heat-loving, its

CR. NO: 1/3

SHAN'KO, B., kapitan dal'nego plavaniya

Refloating the marine diesel-electric motorship "Simferopol'."
Mor.flot 23 no.2:23-24 F '63. (MIRA 16:2)
(Salvage) (Shipwrecks)

SHAN'KO, B.D.

[In a sailboat, across to oceans] Pod parusami cherez dva okeana.
Moskva, Geografiz, 1952. 416 diagra. (MLRA 8:2)
(Korall (Schooner)) (Voyages and travels)

SHANIN, A.

Voyages and Travels

Under sail through two oceans. Vokrug sveta No. 7, 1952.

Monthly List of Russian Accessions. Library of Congress October 1952. UNCLASSIFIED.

1911, 1912.

Journal of the

Waterfalls through the ocean. Journal of the 1911, 1912.

Monthly list of Russian Acquisitions, Library of Congress, December 1912. UNCLASSIFIED

1. SHAN'KO, B.
2. USSR (600)
4. Panama Canal
7. Sailing across two oceans. Vokrug sveta no. 10, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

1. SHAN'KO, B.
2. USSR (600)
4. Hawaiian Islands - description and travel
7. Sailing across two oceans, Vokrug sveta No. 11, 1952

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

1. SHAN'KO, B.
2. USSR (600)
4. Hawaiian Islands--Description and Travel
7. Under sail through two oceans. Vokrug sveta no. 12 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

ИЛАНОВ, Т. П.

Бункеровка судов жидкой топливом и снабжение водою на ходу /Supplying ships with liquid fuel and water en route/. Москва, Морской транспорт, 1953. 75 с.

SO: Monthly List of Russian Accessions, Vol. 6 No 10 January 1954

~~SHAN'KO~~, Boris Dmitriyevich, kapitan dal'nego plavaniya; ANAN'IN, V.I.,
redaktor; BEGICHEVA, M.N., tekhnicheskiiy redaktor

[The organization of long distance trips for large groups of small-
tonnage vessels] Organizatsiia dal'nykh perekhodov krupnykh soedine-
nii malotonnazhnykh sudov. Moskva, Vodtransizdat, 1954. 312 p.
(Merchant marine) (Navigation) (MLRA 8:3)

SHAN'KO, Boris Dmitriyevich; IGNATKOVICH, G.M., redaktor; KOSHELEVA, S.M.,
tekhnicheskiy redaktor; MAL'CHEVSKIY, G.N., redaktor kart

[Under sail across two oceans] Pod parusami cherez dva okeana.
[Moskva] Gos. izd-vo geograficheskoi lit-ry, 1954. 387 p.
(Voyages and travel) (MLRA 7:10)

SHAN'KO, B., kapitan dal'nego plavaniya.

"Russian seafarers." Reviewed by B. Shan'ko. Vokrug sveta no.8:
60-62 Ag '54. (MIRA 7:9)

(Voyages and travels)

~~SHANIKO, Boris Dmitriyevich~~, kapitan dal'nego plavaniya; OSIPOVICH, P.O.,
~~red.~~; ~~TIKHONOVA, Ye.A.~~, tekhn.red.

[Problems of anchorage] Voprosy iakornoi stoiarki. Moskva,
Izd-vo "Morskoi transport," 1957. 210 p. (MIRA 11:6)
(Anchorage)

SHAN'KO, G.G.

Significance of immunological studies and some biochemical
reactions in pediatric neurorheumatism. Dokl. AN SSSR 9
no.1:61-64 Ja '65. (MIRA 18:10)

1. Belorusskiy gosudarstvennyy institut usovershenstvovaniya
vrachey.

SHAN'KO, G.G.; ROGATINSKAYA, F.A.; SLIVKINA, M.V.

Blood serum protein fractions in rheumatic central nervous system diseases in children. Dokl. AN BSSR 8 no.7:431-433 '64.

(MIRA 17:10)

1. Belorusskiy gosudarstvennyy institut usovershenstvovaniya vrachey.
Predstavleno akademikom AN BSSR D.A. Markovym.

SHAN'KO, G.G.

Diagnostic significance of some immunological reactions in
neurorheumatism in children. Zhur. nevr. i psikh. 65
no.1:19-23 '65. (MIRA 18:2)

1. Kafedra nervnykh bolezney (zaveduyushchiy- prof. D.A. Markov)
Belorusskogo instituta usovershenstvovaniya vrachey, Minsk.

SHAN'KO, V.M.

Effect of sulphlogene: thermal effects on the development of
subsequent inflammation of the concha auricularae in rabbits.
Pat. fiziol. i eksp. terap. 9 no.3:48-51 My-Je '65

(MIRA 18:9)

1. Kafedra patclogicheskoy fiziologii (zav.- prof. M.M. Smyk)
Luganskogo meditsinskogo instituta.

SHAN'KO, V.M.

Effect of vitamin B₁₂ on the local effect of a chemical stimulant.
Fiziol. zhur. [Ukr.] 11 no.6:826-828 N-D '65. (MIRA 19:1)

1. Kafedra patologiccheskoy fiziologii Luganskogo meditsinskogo
instituta.

SHAN'KO, V.V.

Kachar Mining and Ore-Dressing Combine. Gor.zhur. no.9:26-32
S '60. (MIRA 13:9)

1. Glavnyy inzhener proyekta, Giproruda, Leningrad.
(Kustanay Province--Iron mines and mining)
(Ore dressing)

SHAN'KO, V.V., inzh.

Practical limitations on the adoption of truck transportation in
open-pit mines. Gor. zhur. no.3:8-11 Mr '61. (MIRA 14:3)

1. Giproruda, Leningrad.
(Mine haulage)

SHAN'KO, V.V., inzh.

Kovdor Mining and Ore-dressing Combine. Gor.zhur. no.4:11-14 Ap
'61. (MIRA 14:4)

1. Giproruda, Leningrad. .
(Kola Peninsula--Iron mines and mining) (Ore dress.-ag)

PLATE I. RADIATION

807/3599

Biometric radiological methods (Collection of Radio-chemical and Biometric Methods) Moscow, Medits, 1979. 559 p. Kireva all lowered. 9,000 copies printed.

See (Title page): N.G. Ozer, V.I. Margolis, A.N. Mury, N.Yu. Tarasenko, N.M. Shukhenberg; Ed. (Inside book): V.I. Shukhenberg; Tech. Ed.: A.Y. Shukhenberg.

Purpose: This collection of articles is intended for physicists, sanitation and public health doctors, chemists and other specialists working in radioactive dosimetry.

Contents: The work summarizes the following subjects: (1) principles of organizing sanitation and dosimetric control in institutions where work is carried on with radioactive substances; (2) radio-chemical and chemical methods for determining certain radioactive substances in samples of air, water, soil and foodstuffs; (3) physical methods of measuring contamination of the air by radioactive gases and aerosols, and methods for determining the level of contamination of working surfaces, clothes and shelter covering; (4) methods of measuring contamination of the environment and methods of measuring the activity of solid and liquid radioactive sources. There are four appendices dealing with methods of calculating the total dosage from sources of ionizing radiation, units of activity, and doses from natural (background) radioactivity in the calcium of foodstuffs. Sanitary regulations observed during transportation, storage, and handling of radioactive substances are discussed, as well as the possible levels of ionizing radiation. The editors thank Yu.Y. Shukhenberg and D.F. Shukhenberg for their assistance in the preparation of the book.

Ch. VI. Physical Methods of Determining Contamination of the Ambient Atmosphere Due to Radioactive Aerosols and Gases

Introduction (Yu. M. Shukhenberg)

1. Determination of the active concentration of naturally active aerosols (G.Y. Gornov, V.Y. Kozlov, V.I. Shukhenberg and V.M. Kozlov) 154
2. Determination of the radioactive dust content of air with the aid of ion-exchange filters (K.K. Lomakin) 162
3. Determination of the concentration of active aerosols with the aid of the electric precipitator type EP-2 (Yu.K. Shukhenberg and K.S. Palagin) 169
4. Measurement of active aerosols with the aid of liquid filters (B.M. Gerasimov and V.Y. Kozlov) 185
5. Methods of measuring of beta-active gases by means of an end-window counter (G.M. Alimov and A.D. Turkin) 195
6. Determination of effluent air contamination due to radioactive gases and aerosols (G. Lyova, B.M. Gerasimov and V.Y. Kozlov) 196
7. Measurement of the concentration of radon in the air (V.I. Shukhenberg and V.M. Kozlov) 202
8. Automatic control of the concentration of air by means of an "air wall" chamber (K.M. Boshkov, N.I. Shukhenberg and Yu.M. Shukhenberg) 211
9. Determination of concentration of beta-active gases in the air with the aid of a cylindrical counter placed in a chamber of fixed volume (V.Y. Kozlov) 215

Recommended Literature

Ch. VII. Methods of Measuring the Level of Contamination of Surfaces

Introduction (Yu. M. Shukhenberg)

1. Instruments for measuring the maximum permissible level of contamination of surfaces by active substances (Yu.K. Shukhenberg) 219
2. Calibration of instruments for measuring the contamination of surfaces by active substances (Yu.K. Shukhenberg) 245
3. Measuring the contamination of surfaces (Yu.K. Shukhenberg) 252
4. Measuring the contamination of liquid surfaces (Yu.K. Shukhenberg) 256
5. Measuring the contamination of surfaces by means of a body (Yu.K. Shukhenberg) 266
6. Measuring the radioactive contamination of the hands and feet (Yu.K. Shukhenberg) 271
7. Method of measuring the radioactive contamination of surfaces by the "wet" method (B.M. Gerasimov, Yu. Shukhenberg and K. Ozerov) 275

Ch. VIII. Methods of Measuring Internal Sources of X and Gamma Radiation (V.I. Margolis and B.M. Gerasimov)

1. Organization of dosimetric monitoring
2. Calibration of dosimeters

279
283
291

1. SPIANKOV M.M. Eng. YAKOVLEV I.A. Eng.
2. USSR (600)
4. Transportation, Automotive-Moscow
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Gor.khoz.Mosk. 21, no.11, 1947.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

L 8221-66 EWT(d)/EWT(m)/EWP(c)/EWA(d)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWP(l)/ETC(m)
 ACC NR: AP5026216 IJP(c) MJW/JD/WW SOURCE CODE: UR/0381/65/000/004/0056/0060

AUTHOR: Baryshev, S. Ye.; Bespalov, N. A.; Shan'kova, Z. N.; Krasota, V. K. 45 B

ORG: none

TITLE: Mechanized ultrasonic normal wave flaw detector for automatic quality control of aluminum alloy plates 14

SOURCE: Defektoskopiya, no. 4, 1965, 56-60

TOPIC TAGS: ultrasonic inspection, aluminum alloy, alloy sheet, alloy plate, plate ultrasonic inspection, ultrasonic flaw detector, automatic flaw detector, quality control

ABSTRACT: The design and the operating principles of a UDK-2L ultrasonic flaw de- tector for automatic quality control of aluminum alloy plates and sheets are de- scribed. The flaw detector operation is based on the pulse-echo method using normal antisymmetric waves which undergo a maximum reflection from laminations in the fd range of 6-12 Mc·mm (f is the ultrasound frequency and d is the metal thickness). The UDK-2L flaw detector has two control channels and operates with three fixed frequen- cies: 1.8, 2.5, and 5 Mc. It is provided with several pairs of interchangeable search heads, each of which is designed for a certain alloy and a definite range of thicknesses. The UDK-2L is capable of separating a pulse reflected from a flaw lo- cated at a distance of 1200 mm in sheets of AMg6 aluminum alloy. Preliminary statis- tical data showed that the UDK-2L ensures detection of laminations 20-30 mm long and

UDC: 620.179.16

Card 1/2

L 8221-66

ACC NR: AP5026216

0.5—1.0 mm wide, slag inclusions, discontinuities in the cladding layer, and other types of internal flaws. Orig. art. has: 4 figures and 1 table. [MS]

SUB CODE: 13, 11/ SUBM DATE: 05Apr65/ ATD PRESS: 4148

Card 2/2 (11)

BARYSHEV, S.Ye.; BESPALOV, N.A.; SHAN'KOVA, Z.N.; KRASOTA, V.K.

Mechanized ultrasonic equipment for the control of aluminum
alloy sheet by the regular wave method. Defektoskopiia 1
no.4:56-60 '65. (MIRA 18:12)

31.11.1954, 1.1.

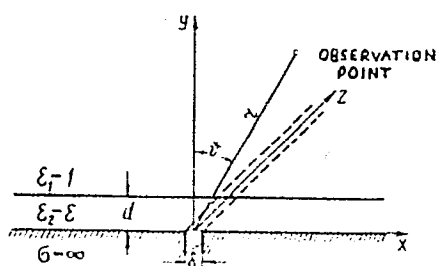
293 Zashchita Sel'skikh Vozdushnykh Fideraykh Liniy. M., Svyaz'izdat, 1954.
263. 3 11". 70 37. (V Poyas'nikh' Sel'skikh Radiofikatoram). 20.000 EKZ.
75 K.--de Obl. Avt: V. .(!) Shanurenk.--(54-55306)
P. 621.396.712(-2)

30: Kniz'naya, Letopis, Vol. 1, 1955

9.3700

77558
SOV/106-15-2-4/12

AUTHOR: Shannikov, D. V.
 TITLE: Ratio of Powers Transferred by Waves Generated by a Slot in a Plane Covered With a Dielectric Layer
 PERIODICAL: Radiotekhnika, 1960, Vol 15, Nr 2, pp 27-33 (USSR)
 ABSTRACT: The paper analyzes the system shown on Fig. 1.



Card 1/12

Ratio of Powers Transferred by Waves Generated by a Slot in a Plane Covered With a Dielectric Layer 77559
SOV/103-15-2-4/12

An alternating potential difference u is applied to an infinite slot cut out along the z axis. The generated electromagnetic field has only three components E_x , E_y , and H_z . These components satisfy the following boundary conditions:

$$\begin{aligned} \frac{\partial H_z}{\partial y} \Big|_{y=0} &= i\omega \frac{\epsilon}{c} E_x \Big|_{y=0}, \\ E_x \Big|_{y=0} &= \begin{cases} 0 & \text{on metallic surface} \\ \frac{u}{b} & \text{on slot aperture} \end{cases} \\ \frac{\partial H_z}{\partial y} \Big|_{y=d} &= \frac{1}{\epsilon} \frac{\partial H_z}{\partial y} \Big|_{y=d}, \quad \frac{\partial H_1}{\partial x} \Big|_{y=d} = \frac{\partial H_2}{\partial x} \Big|_{y=d}. \end{aligned} \quad (1)$$

(Abstracter's note: Capital "C" should obviously be a small "c") Here, $\epsilon = \epsilon_2$ and $\epsilon_1 = 1$. Subscripts "1" and "2" refer to the field in the free space and

Card 2/12

Ratio of Powers Transferred by Waves Generated
by a Slot in a Plane Covered With a Dielectric
Layer

77559

SOV/108-15-2-4/12

to the field in the dielectric, respectively. Using
the Fourier transform:

$$\phi = \int_{-\infty}^{\infty} H e^{-hx} dx, \quad (2)$$

Equations (1) become Eqs. (7):

$$\left. \begin{aligned} \frac{\partial \phi_2}{\partial y} \Big|_{y=0} &= i\omega \frac{\epsilon}{c} U \\ \frac{\partial \phi_1}{\partial y} \Big|_{y=d} &= \frac{1}{\epsilon} \frac{\partial \phi_2}{\partial y} \Big|_{y=d}; \quad \phi_1 \Big|_{y=d} = \phi_2 \Big|_{y=d} \end{aligned} \right\} \quad (7)$$

For convenience the designation given by Eq. (8) is
introduced:

$$i\omega \frac{\epsilon}{c} U = C. \quad (8)$$

Card 3/12

Ratio of Powers Transferred by Waves Generated by a Slot in a Plane Covered With a Dielectric Layer 77559
SOV/108-15-2-4/12

Equations (7) are the boundary conditions for the wave equation:

$$\left. \begin{aligned} \frac{d^2 \phi_i}{dy^2} - \beta_i^2 \phi_i &= 0 \\ \beta_i^2 &= h^2 - k_i^2 \end{aligned} \right\}, \quad (4)$$

where $i = 1, 2$.

The general solution of this equation is:

$$\phi_i = A_i e^{\beta_i y} + B_i e^{-\beta_i y}, \quad (9)$$

Assuming $\text{Re} \beta_i > 0$, the coefficient A_i must equal zero in order to satisfy the conditions for radiation. Using Eqs. (7), an expression is obtained for Φ_1 which is substituted into the inverse Fourier transform given as:

Card 4/12

Ratio of Powers Transferred by Waves Generated
by a Slot in a Plane Covered With a Dielectric
Layer

77559
SOV/103-15-2-4/12

$$H = \frac{1}{2\pi} \int_{-\infty}^{\infty} \Phi e^{ihx} dh. \quad (5)$$

Thus, the following expression for H_1 is obtained:

$$H_1 = C \int_{-\infty}^{\infty} \frac{e^{ihx} e^{\beta_1 d} e^{-\beta_1 y} dh}{\epsilon \beta_1 \operatorname{ch} \beta_1 d + \beta_2 \operatorname{sh} \beta_1 d} = CI. \quad (11)$$

For the solution of the problem considered, it is sufficient to determine the field at a great distance from the slot. In this case the parameter $k_1 r$ is of great magnitude, and an integration method described in a previous Soviet publication may be applied to Eq. (11). The expression obtained after integration is given as:

Card 5/12

Ratio of Powers Transferred by Waves Generated
by a Slot in a Plane Covered With a Dielectric
Layer

77559

SOV/106-15-2-4/12

$$H = \frac{u}{\lambda} \left[\sqrt{\frac{\lambda}{r}} \frac{\cos \theta e^{-\frac{\pi}{4}} e^{-1.2, r}}{\cos \theta \cos k_1 d \sqrt{\frac{\lambda}{r} - \sin^2 \theta} + i \frac{\sqrt{\frac{\lambda}{r} - \sin^2 \theta}}{\epsilon} \sin k_1 d \sqrt{\frac{\lambda}{r} - \sin^2 \theta}} \right. \\ \left. - 2\pi^2 \sum_{n=0}^m \frac{e^{-1.2 h_n x} e^{-\sqrt{h_n^2 - k_1^2} (y-d)}}{\frac{\partial}{\partial h} \left[\sqrt{h^2 - k_1^2} \operatorname{ch} d \sqrt{h^2 - k_2^2} + \frac{\sqrt{h^2 - k_2^2}}{\epsilon} \operatorname{sh} d \sqrt{h^2 - k_2^2} \right] \Big|_{h=h_n}} \right] \quad (24)$$

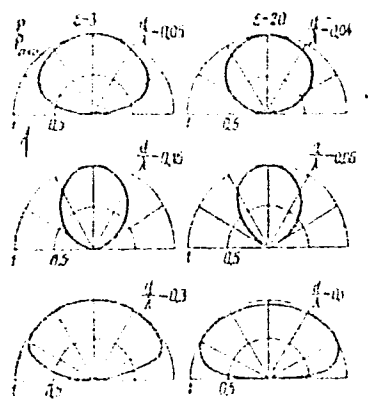
where the first term describes the sky wave and the second term, the surface wave. The influence of the dielectric layer on the radiation pattern is illustrated on Fig. 4.

Card 6,12

Figure 4. Powers Transferred by Waves Generated
by a Slot in a Plane Covered With a Dielectric
Layer

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309/103-15-2-4/12



Continued

Fig. 4.

Ratio of Powers Transferred by Waves Generated by a Slot in a Plane Covered With a Dielectric Layer

The pattern changes its circular shape when the layer thickness d increases. At some value of d between 0 and $\lambda/2 \sqrt{\epsilon - 1}$ the deformation of the shape becomes maximum. Near the critical value $d = \lambda/2 \sqrt{\epsilon - 1}$ the pattern again approaches the circular form. It is assumed that, close to the surface at a great distance from the slot, the field has the form of a surface wave. In this case, the field in the dielectric may be expressed as a function of the field in the air. In accordance with Eq. (24), an expression is given for the magnetic field on the boundary air-dielectric. This expression, as well as Eq. (25), is used to determine the total power transferred by the surface wave. Using a given expression for the power of the sky wave, the ratio surface-wave power to sky-wave power is obtained:

Eq. (26)

Field of Power Transferred by Waves Generated in a Plane Covered with a Dielectric [20] 1971

$$\beta = \frac{P_{\text{surface}}}{P_{\text{ky}}} = \frac{\sin 2\alpha d}{2\sqrt{1 - \gamma_n^2} \cos^2 k_1 d \sqrt{1 - \gamma_n^2} + \frac{2\pi d}{\sin 2\alpha d} \left[\frac{1}{\sqrt{1 - \gamma_n^2} \cos^2 k_1 d \sqrt{1 - \gamma_n^2}} + \frac{1}{\sqrt{1 - \gamma_n^2}} \right]} \quad (31)$$

$$= \sum_{n=0}^{\infty} 2\pi^2 \gamma_n \frac{\partial}{\partial h} \left[\frac{1}{\sqrt{h^2 - k_1^2} \operatorname{ch} d} \sqrt{h^2 - k_2^2} + \frac{1}{\sqrt{h^2 - k_2^2} \operatorname{ch} d} \sqrt{h^2 - k_1^2} \right] \gamma_n A$$

where

$$A = \int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} \frac{\cos^2 \alpha d \sqrt{1 - \sin^2 \alpha}}{\cos^2 \alpha \cos^2 k_1 d \sqrt{1 - \sin^2 \alpha} + \frac{\epsilon - \sin^2 \alpha}{\epsilon^2} \sin^2 \alpha \sqrt{1 - \sin^2 \alpha}} d\alpha$$

$$\text{where } \gamma_n = \frac{h_n}{k_1}$$

24-01 1/12

Power Transferred by Waves Generated in a Plane Covered With a Dielectric

(Abstracter's note: It is shown in the denominator of Eq. (31) that h_n is multiplied by A. This is obviously a typographical error, since not only h_n but the entire denominator must be multiplied by A. This would call for another pair of brackets, one of which is A and within which is the entire balance of the denominator.) The complex expression (31) may be simplified under the assumption that the dielectric layer is thin and that, therefore, the entire energy of the surface wave is transferred through the air. The simplified expression is:

$$\beta = \frac{4\pi^2(\epsilon - 1)d}{\epsilon} \quad (32)$$

It is convenient to introduce the parameter:

$$\gamma = \frac{\beta}{1 + \beta} \quad (33)$$

and 10-12

Ratio of Powers Transferred by Waves Generated
by a Slot in a Plane Covered With a Dielectric
Layer

7/550

SOV/103-13-2-4/12

which characterizes the part of the radiated energy transformed into surface wave. Figure 6 shows the relationship between η and the dielectric thickness d for various values of ϵ .

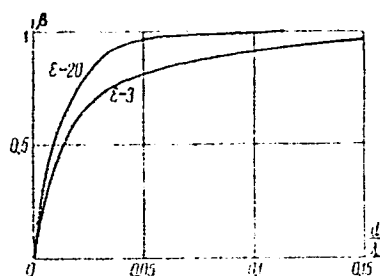


Fig. 6

Card 11/12

Ratio of Powers Transferred by Waves Generated
by a Slot in a Plane Covered With a Dielectric
Layer

77550
SOV/108-15-2-4/12

(Abstracter's note: It is obvious that ordinates are values of η and not of β , as shown on the figures.) Here η is calculated in accordance with Eq. (32) for small values of d . For greater d Eq. (31) was used. The author arrives at the conclusion that the dielectric layer not only exerts a strong influence on the radiation resistance of the slot, but may also transform into a surface wave a considerable part of energy. There are 6 figures; and 4 references, 2 Soviet, 2 U.S. The U.S. references are: C. T. Tai, Journ. of Appl. Phys., Vol 22, Nr 4, 1951; R. M. Waitmer, PIRE, Vol 36, Nr 9, 1948.

SUBMITTED: April 8, 1958

Card 12/12

30

Measurement of the hardness of rubber V. M. Shannikov and G. S. Taruchit. *Gummi und Kautschuk* (U. S. S. R.) 1938, No. 8 10, 57-60. A discussion of the merits of the Shore, Adams and Jones hardness devices. Bernard Kilberg.

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PRECEDENCE AND PRIORITY INDEX																																																			
30 Rubber bearings. V. M. Shaumkov. <i>Gumshone and Rubber</i> (U. S. S. R.) 1939, No. 12, 18-22. The friction characteristics of water-lubricated grooved bearings under loads of 0.4-7 kg. per sq. cm. and speeds of 3.4, 20, 0.005 and 0.53 m. per sec. were studied. The bearings were made of natural rubber, synthetic rubber and natural rubber, resp. The friction coeffs. changed little with pressure but increased rapidly with decreasing speed. Distribution of pressure indicates that each section of the bearing surface functions under conditions of liquid lubrication. U. Z. Kamich																																																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION REGION SYMBOLS 1ST AND 2ND ORDERS 3RD AND 4TH ORDERS																																																			

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Planetarnye reduktory s vnesentroidnym zatsepleniem. Moskva, Mashgiz, 1948.
171 p. diagrs.

Bibliography: p. 159-1607.

Planetary reducing gears with eccentric gearing.

DLC: TJ202.S48

83: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1953.

Name: SHANNIKOV, Vladimir Mikhaylovich

Dissertation: Planetary gearing with off-center
Cycloidal mesh

Degree: Doc Tech Sci

Affiliation: /not indicated/

Defense Date, Place; 6 Jun 56, Council of Moscow Machine
Tool and Instrument Inst imeni Stalin

Certification Date: 12 Jan 57

Source: BMVO 7/57

S/191/62/000/003/010/010
B101/B147

AUTHORS: Shannikov, V. M., Meng, V. V.

TITLE: Method of short time creep tests of plastics

PERIODICAL: Plasticheskiye massy, no. 3, 1962, 67-69.

TEXT: A report is given on creep tests of plastics with the aid of a ПБМ(РБМ) Brinell press allowing loads between 55 and 3000 kg. Five different tensions σ below the proportionality limit σ_p are to be applied.

No less than three specimens are to be tested at each tension for at least 100 hrs. Deformation is to be measured especially within the first 30-50 hrs and at intervals of not less than 4-8 hrs. A П-68 (P-68) resin was used to show that $\varepsilon = k\tau^n$ (1), where ε is the relative deformation, k is a coefficient, τ is the time (hrs), and $n = \tan \alpha$ is the gradient of the straight line $\varepsilon = f(\tau)$ in logarithmic coordinates. Furthermore, $\log k = \log A + m \cdot \log \sigma$; $m = \tan \beta$ is the inclination of the straight line $k = f(\sigma)$ in logarithmic coordinates. $A = k_{\sigma_0} / \sigma_0^m$, where k_{σ_0} is the coefficient k at σ_0 (for P-68, σ_0 was 100 kg/cm²). $k = A\sigma^m$ substituted Card 1/2

SHANNIKOV, V.M.; MENG, V.V.

Methods for shorter period creep tests of plastics. Plast.massy
no.3:67-69 '62. (MIRA 15:4)
(Creep of plastics)

S/191/62/000/012/014/015
B101/B186

AUTHORS:

Shannikov, V. M., Meng, V. V.

TITLE:

Problem of the deformation of plastics under permanent compression

PERIODICAL: Plasticheskiye massy, no. 12, 1962, 62-65

TEXT: At room temperature, the deformation under static compression was determined as a function of time and load for caprone (I), Π -68 (P-68) polyamide resin (II), AK-7 (AK-7) resin (III), and cordcaprone (IV). The empirical equation was found: $\epsilon = A\sigma_n^m \tau^n$, where ϵ = relative deformation, σ = compression, kg/cm², τ = time, hrs. For I, $A = 8 \cdot 10^{-6}$, $m = 1.6$, $n = 0.08$; for II, $A = 4.8 \cdot 10^{-6}$, $m = 1.6$, $n = 0.04$; for III, $A = 1.6 \cdot 10^{-6}$, $m = 1.7$, $n = 0.09$; for IV, $A = 0.2 \cdot 10^{-6}$, $m = 1.9$, $n = 0.11$. The equation holds for the region $\sim 200 > \tau \geq 1$ hr, $\sigma_n > \sigma \geq 100$ kg/cm², where σ_n is the limit of proportionality which is 410 kg/cm² for I, 715 for II, 630 for III and 850 for IV. When a minimum

Card 1/3

Problem of the deformation of ...

S/191/62/000/012/014/015
B101/B186

load $\sigma_{\min}$ is exceeded, the deformations occurring at different loads after 1 sec differ from those occurring after 100 hrs. $\sigma_{\min}$ (in kg/cm^2) was 85 for I, 45 for II, 60 for III, 205 for IV, 145 for viniplast. It is emphasized that A, m, n, and $\sigma_{\min}$ may differ in value as between plastics of the same type but of different origin. With compressions near σ_n , considerable deformations occur at the end of the creeping process.

The empirical equation is given: $\varepsilon_{\text{fin}} = B\sigma^k$. Values found for I:

$B = 6.8 \cdot 10^{-6}$, $k = 1.7$; for II: $B = 4.5 \cdot 10^{-6}$, $k = 1.7$; for III:

$B = 1.1 \cdot 10^{-6}$, $k = 1.8$; for IV: $B = 0.07 \cdot 10^{-6}$, $k = 2.2$. For $\sigma = 400 \text{ kg/cm}^2$, the ratio $\varepsilon_I : \varepsilon_{II} : \varepsilon_{III} : \varepsilon_{IV} \approx 6:4:2:1$. The final deformation of

viniplast was calculated from $\varepsilon_{\text{fin}} = 0.04 \cdot 10^{-6} \sigma^{2.5}$ and compared with

the data of N. T. Smotrin (Mekhanicheskiye svoystva viniplasta i osnovy rascheta yego na prochnost' [Mechanical properties of viniplast and principles for calculating its strength], Candidate dissertation, 1951).

The calculated values were of the same order as the experimental values

Card 2/3

S/191/62/000/012/014/015
B101/B186

Problem of the deformation of ...

found in long-period tests (up to 7000 hrs). To avoid long testing times
it is recommended to test with a deformation rate of $\dot{\epsilon} = 5 \cdot 10^{-5} \text{ hr}^{-1}$
and to assume a value increased by 10-20% for the final deformation.
There are 7 figures.

Card 3/3

SHANNIKOV, V.M., doktor tekhn.nauk

Production, processing and use of plastics in the industry of the
Leningrad Economic Council. Biul.tekh.-ekon.inform.Gos.nauch.-issl.
inst.nauchii tekhn.inform. 16 no.8:76-77 '63. (MIRA 16:10)

ACCESSION NR: AP4009837
S/0191/64/000/001/0059/0062

AUTHOR: Shannikov, V. M.; Kan, K. N.

TITLE: Investigation of the static strength of rigid plastics in the horizontal stressed state

SOURCE: Plasticheskiye massy*, no. 1, 1964, 59-62

TOPIC TAGS: plastics, rigid plastics, phenoplast, strength calculation of plastics, rigid plastics static strength, horizontal stressed state

ABSTRACT: For the investigation of rigid plastics in the horizontal stressed state, two kinds of phenoplasts, such as K-18-2 and Monolith-1 were used. The preparation of samples and the testing apparatus are described. The criterion of strength expressed in a formula gives a good approximation of maximum stresses with the experimental data and can be used for the calculation of strength of plastic parts. The formulas derived from the strength

. 1/2

SHANNIKOV, V.M.; KHARITONOV, K.P.; GORDIYENKO, S.L.

Experimental determination of pressures and temperature on
the surface of plastic goods during their manufacture. Plast.
massy no.3:36-38 '64. (MIRA 17:3)

SHAN'KO, V.M.

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noninfectious inflammation in the peritoneum. Biul. eksp. biol. i
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1. Kafedra patologicheskoy fiziologii (zav. - prof. M.M. Smyk)
Luganskogo meditsinskogo instituta. Submitted July 31, 1964.

SHANODIN, Nikolay, brigadir

We will fulfill our pre-Congress obligations. Stroitel' no.8:10
Ag '61. (MIRA 14:8)

1. Kompleksnaya brigada shtukaturov kommunisticheskogo truda tresta
Stalingradstroy. (Stalingrad---Plastering)

SHANOV, A. N.

Co-author with S. E. RYSKIN of the chapter,

"High Frequency Induction Surface Hardening of Caterpillar Track Link Tongues"

from the publication "Avtomobilnaya i Traktornaya Promyshlennost'" (Automobile and Tractor Industry) No. 1, January 1954, p. 22. (See V. E. Malakhovskiy for authors of other chapters).

SHANOV, B., inzh.

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482:2 13 J1 '63.

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7D 163.

SHABOV, Bonchc, inzh.

Achievements of the Board of Hydraulic Engineering and Assembly
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Sterlitamak oil region. Trudy GIN no.13:139-152 '58. (MIRA 11:9)
(Bashkiria--Foraminefera, Fossil)

SHANOV, D.M.

Characteristics of inflammatory manifestations accompanying the
development of cancer of various localizations. Izv. AN Kazakh.
SSR, Ser. med. i fiziol. no. 2: 86-95 1961. (MIRA 15:4)
(CANCER) (INFLAMMATION)

SHANOV, M.S., dotsent

Antispasmodic treatment in brain abscesses during the postoperative
period. Zdrav. Kazakh. 21 no.9:21-24 '61. (MIRA 14:10)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - professor B.V.
Yelantsev) Kazakhskogo meditsinskogo instituta.
(BRAIN--ABSCESS) (ANTISPASMODICS)

SHANOV V.P.

539.18
42. Yields of the processes of fission and star formation accompanying the capture of π^- -mesons by the nuclei U, Bi and W. N. A. PERFILOV, O. V. LOZIKIN AND V. P. SHANOV. Letter in *Zh. eksper. teor. Fiz.*, 28, No. 6, 655-63 (1955) In Russian.
Photographic plates were employed, with U, Bi, W in the form of finely powdered oxides inserted in a layer not exceeding the depth of focus of the microscope so that only horizontal scanning was necessary. The numbers of stars observed in the three cases were 210, 250 and 600 respectively; the numbers of fissions, 10, 2 and 1. The numbers of tracks per star were also noted. After applying corrections for star formation in the emulsion, probabilities of fission upon capture of π^- -mesons for U, Bi and W were found to be ~ 0.3 , ~ 0.02 and ~ 0.007 respectively. Most of the stars contained no or one track. G. E. BROWN

(2)

SHANOV, V. P.

56-2-6/47

AUTHOR:
TITLE:

SHANOV, V. P.

Fission of Uranium and Protactinium at High Excitation Energies.
(Deleniye urana i protaktiniya pri bolshikh energiyakh vozbuzh-
deniya, Russian)

PERIODICAL:

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 33, Nr 2(8)
pp 345-353 (U.S.S.R.)

ABSTRACT:

In order to determine the character of the fissioning mechanism of U and Pa at initial excitation energies of up to 100 MeV, the experimental results of the fission of U^{238} by 340 MeV protons were used. As a basis for analysis the fission yields of the nuclear pairs U^{236} - U^{232} and Pa^{231} - Pa^{227} (which have the same parameter Z^2/A) were compared. It is shown that within the given interval of initial excitation energies the fission of U and Pa is of "emissionlike" character. (With 5 Tables, 1 Illustration and 1 Slavic Reference).
Radium Institute of the Academy of Sciences of the U.S.S.R.
(Radiyevyy institut Akademii nauk SSSR)

ASSOCIATION:

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